Nigel Bosch

List of Publications by Year
in descending order

48 papers	1,309 citations	623734 14 h-index	501196 28 g-index
48 all docs	48 docs citations	48 times ranked	976 citing authors

#	Article	IF	Citations
1	Automated Detection of Engagement Using Video-Based Estimation of Facial Expressions and Heart Rate. IEEE Transactions on Affective Computing, 2017, 8, 15-28.	8.3	212
2	Automatic Detection of Learning-Centered Affective States in the Wild. , 2015, , .		102
3	Modeling how incoming knowledge, persistence, affective states, and in-game progress influence student learning from an educational game. Computers and Education, 2015, 86, 224-235.	8.3	79
4	Using Video to Automatically Detect Learner Affect in Computer-Enabled Classrooms. ACM Transactions on Interactive Intelligent Systems, 2016, 6, 1-26.	3.7	78
5	The Affective Experience of Novice Computer Programmers. International Journal of Artificial Intelligence in Education, 2017, 27, 181-206.	5.5	70
6	Disengagement during lectures: Media multitasking and mind wandering in university classrooms. Computers and Education, 2019, 132, 76-89.	8.3	69
7	Automated gaze-based mind wandering detection during computerized learning in classrooms. User Modeling and User-Adapted Interaction, 2019, 29, 821-867.	3.8	60
8	Automated video interview personality assessments: Reliability, validity, and generalizability investigations.. Journal of Applied Psychology, 2022, 107, 1323-1351.	5.3	45
9	What Emotions Do Novices Experience during Their First Computer Programming Learning Session?. Lecture Notes in Computer Science, 2013, , 11-20.	1.3	45
10	"Out of the Fr-Eye-ing Pan". , 2017, , .		44
11	Detecting Student Engagement. , 2016, , .		43
12	Expert Feature-Engineering vs. Deep Neural Networks: Which Is Better for Sensor-Free Affect Detection?. Lecture Notes in Computer Science, 2018, , 198-211.	1.3	42
13	Itâ€™s Written on Your Face: Detecting Affective States from Facial Expressions while Learning Computer Programming. Lecture Notes in Computer Science, 2014, , 39-44.	1.3	40
14	Automatic Detection of Mind Wandering from Video in the Lab and in the Classroom. IEEE Transactions on Affective Computing, 2021, 12, 974-988.	8.3	39
15	Using machine learning for real-time BAC estimation from a new-generation transdermal biosensor in the laboratory. Drug and Alcohol Dependence, 2020, 216, 108205.	3.2	37
16	Accuracy vs. Availability Heuristic in Multimodal Affect Detection in the Wild. , 2015, , .		24
17	Attending to Attention. , 2016, , .		20
18	Alcohol narrows physical distance between strangers. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	18

#	Article	IF	Citations
19	Affect Sequences and Learning in Betty's Brain. , 2019, , .		17
20	Developing and evaluating languageâ€based machine learning algorithms for inferring applicant personality in video interviews. Human Resource Management Journal, 0, , .	5.7	17
21	Refocusing the lens on engagement in MOOCs. , 2018, , .		17
22	A new generation of transdermal alcohol biosensing technology: practical applications, machine â€learning analytics and questions for future research. Addiction, 2021, 116, 2912-2920.	3.3	16
23	Face Forward: Detecting Mind Wandering from Video During Narrative Film Comprehension. Lecture Notes in Computer Science, 2017, , 359-370.	1.3	16
24	To Quit or Not to Quit: Predicting Future Behavioral Disengagement from Reading Patterns. Lecture Notes in Computer Science, 2014, , 19-28.	1.3	15
25	Quantifying Classroom Instructor Dynamics with Computer Vision. Lecture Notes in Computer Science, 2018, , 30-42.	1.3	14
26	Mind Wandering During Learning with an Intelligent Tutoring System. Lecture Notes in Computer Science, 2015, , 267-276.	1.3	13
27	Ask for Help: Online Help-Seeking and Help-Giving as Indicators of Cognitive and Social Presence for Students Underrepresented in Chemistry. Journal of Chemical Education, 2021, 98, 3693-3703.	2.3	10
28	Multimodal Affect Detection in the Wild. , 2015, , .		9
29	Identifying supportive student factors for mindset interventions: A two-model machine learning approach. Computers and Education, 2021, 167, 104190.	8.3	9
30	Automating Procedurally Fair Feature Selection in Machine Learning. , 2021, , .		8
31	Modeling Key Differences in Underrepresented Students' Interactions with an Online STEM Course. , 2018, , .		7
32	I'm Sure! Automatic Detection of Metacognition in Online Course Discussion Forums. , 2019, , .		7
33	The evolution of metacognitive strategy use in an open-ended learning environment: Do prior domain knowledge and motivation play a role?. Contemporary Educational Psychology, 2022, 69, 102064.	2.9	7
34	The relationship between confusion and metacognitive strategies in Betty's Brain. , 2020, , .		6
35	Where's Your Mind At?. , 2016, , .		5
36	Temporal Generalizability of Face-Based Affect Detection in Noisy Classroom Environments. Lecture Notes in Computer Science, 2015, , 44-53.	1.3	5

#	Article	IF	Citations
37	Tracking Individuals in Classroom Videos via Post-processing OpenPose Data. , 2022, , .		5
38	Constructing categories: Moving beyond protected classes in algorithmic fairness. Journal of the Association for Information Science and Technology, 2023, 74, 663-668.	2.9	5
39	Novice Reflections During the Transition to a New Programming Language. , 2022, , .		5
40	A Social Network Analysis of Online Engagement for College Students Traditionally Underrepresented in STEM. , 2021, , .		4
41	Studentsâ€™ Verbalized Metacognition During Computerized Learning. , 2021, , .		4
42	Reducing Mind-Wandering During Vicarious Learning from an Intelligent Tutoring System. Lecture Notes in Computer Science, 2019, , 296-307.	1.3	4
43	The Sound of Inattention: Predicting Mind Wandering with Automatically Derived Features of Instructor Speech. Lecture Notes in Computer Science, 2020, , 204-215.	1.3	4
44	Can Computers Outperform Humans in Detecting User Zone-Outs? Implications for Intelligent Interfaces. ACM Transactions on Computer-Human Interaction, 2022, 29, 1-33.	5.7	4
45	Modeling Improvement for Underrepresented Minorities in Online STEM Education. , 2019, , .		3
46	Can Strategic Behaviour Facilitate Confusion Resolution? The Interplay Between Confusion and Metacognitive Strategies in Bettyâ€™s Brain. Journal of Learning Analytics, 2021, , 1-17.	2.4	3
47	Metrics for Discrete Student Models: Chance Levels, Comparisons, and Use Cases. Journal of Learning Analytics, 2018, 5, .	2.4	3
48	How are feelings of difficulty and familiarity linked to learning behaviors and gains in a complex science learning task?. European Journal of Psychology of Education, 0, , 1.	2.6	0